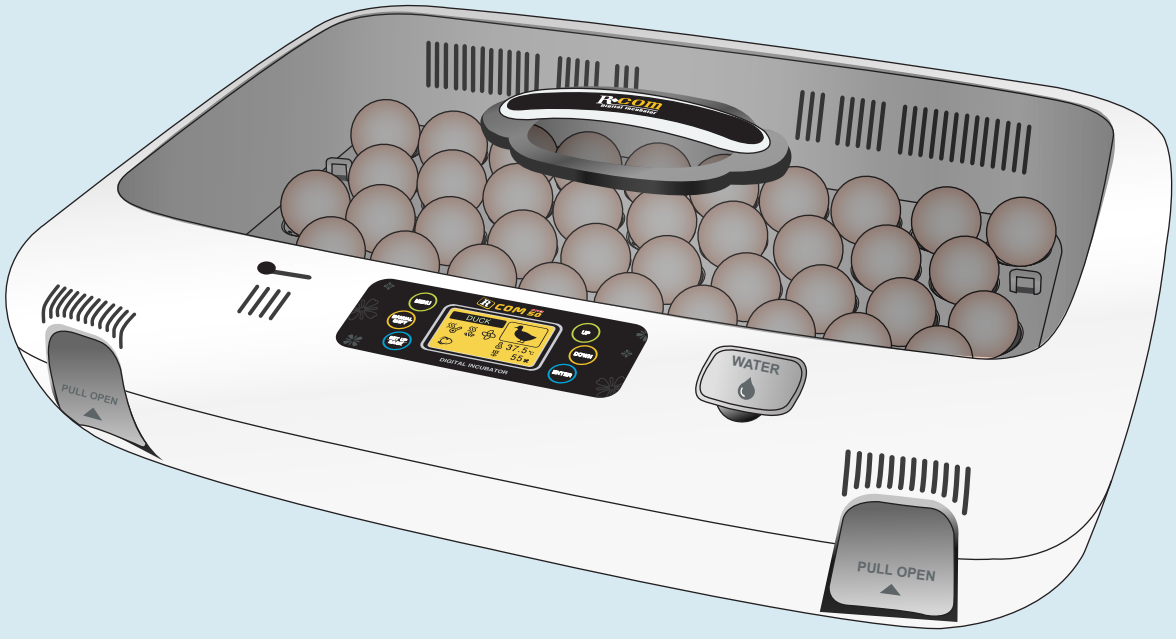
Most Valuable Creation of New Life with "R-COM"

R COM PRO 50

USER'S MANUAL

DIGITAL EGG INCUBATOR

- ☐ R-COM PRO 50
- ☐ R-COM PRO 50 USB



AUTO ELEX CO.,LTD.

R-COM PRO50 / USB 1002 A

How to use R-COM PRO 50 / R-COM PRO 50 USB

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Before use

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Introduction

How to Clean

Product Information

▶ For R-COM PRO 50 USB MODEL PC connecting, refer to the PC-SOFTWARE manual.

Mark Explanation

Caution :

Caution mark against a fault that can cause damage, trouble, or failure of incubation.

- Prohibited
- Do not disassemble.
- Do not touch.
- It is necessary to keep.
- Remove the power cord from outlet.
- Ground Connection for preventing electric shock.

Tip : References or useful suggestions in using R-COM 50

CAUTION Warning of actions which may be dangerous or cause damage to the incubator.

R-COM PRO 50

Thanks for choosing the Rcom PRO 50 incubator.
The Rcom PRO 50 incubator is the first incubator with creditability to have a superior design and function which help in controlling optimum incubation conditions. It has two sensors, one for detecting surrounding environments and the other for internal incubator conditions.
The Rcom PRO 50 is designed to be easy and simple to use as a customer orientated product, but please remember that the user's incubation knowledge and proper operation is very important for the best incubation result.
Therefore, be sure to read this user's manual carefully before you use this incubator.
The Rcom PRO 50 offers optimum incubation conditions, but users need to observe and manage all incubation conditions such as species of eggs, temperature or humidity for each incubation period, and incubation circumstance.

Features

[Main Features]

* LCD display with incubation information, and animation graphic design
* Micro chip with optimum incubation conditions according to the species of birds, for incubation beginners
* Manual setting Mode for incubation specialists
* Outer Temp. Sensor included for Automatic Adjustment of Heating rate responding to Incubation Room Temperature
* Superior design with convenient operation
* Optimum air circulation technique with 5 strong BLDC fans
* Automatic Temp. & Humidity setting and control
* Body locking device
* Water supplement alarm function
* 48 eggs capacity for chicken size eggs (116 Quail egg size / 24 Goose egg size)
* Antiblastic Humidification method by heating water, which discourages bacterial growth
* Double-glazed view window for minimizing the influence of outside temperature
* Enhanced reliability by applying Swiss's Sensirion's 3rd generation temperature & humidity sensor
* Strong SMPS application for stable power supply
* Upgrade to the latest model incubator with program upgrade (USB MODEL ONLY)

[Safety Features]

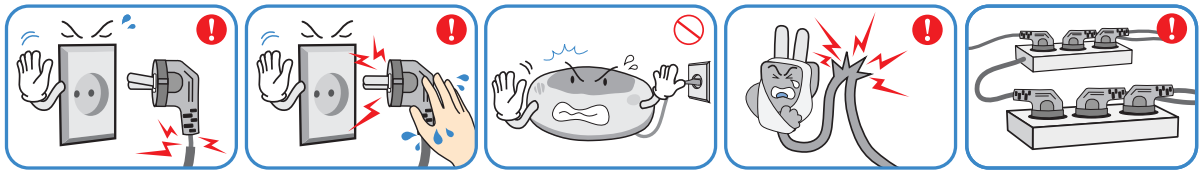
* Self-examination function for sensing abnormal conditions
* Alarm and display function for abnormal incubator temperature caused by sudden fluctuation of ambient temperature
* Incubation data memory function and power outage notification function in case of power failure
* Circulation fan cover for safety and electric safety cut-out switch on the upper main body for safety
* Heater supporter designed for heater tension control and its safety
* Safety cover applied for protecting humidification unit
* Humidification unit durability improved by water proof BLDC fan
* Alarm when water need replenishing

[Easy Features]

* No need of separate humidification unit as it included in main body
* ˚C or ˚F convertible
* Easy attachment and detachment of double-glazed viewing window
* Various kinds of egg trays accept various sized eggs with ease
* Slide plate with embossed feature for preventing skid
* Variable air vent for adjusting air supply
* Bottom body designed for easy cleaning

Electrical hazards

CAUTION Be careful the details below when you use.



Do not use a damaged power cord or loose outlet.
Risk of electric shock or fire.

Do not pull the cord when taking out the power cord, and keep wet hands away from connecting plug.
Risk of electric shock or fire.

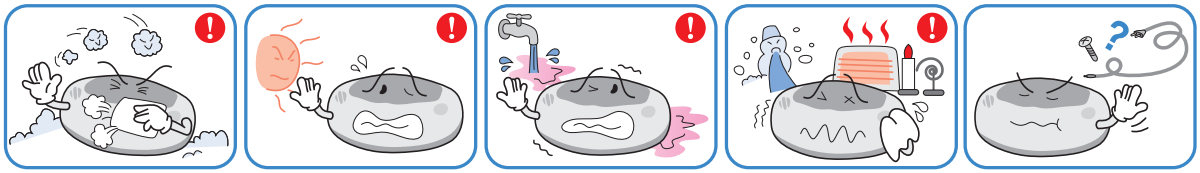
Never pull the plug out of the outlet during the incubation period.
Incubation will be interrupted.

Do not twist or crush electric cord.
Risk of electric shock or fire.

Do not insert multiple connecting plugs in an outlet.
Risk of fire or electrical overload.

Setting Cautions

CAUTION Be careful the details below when you use.



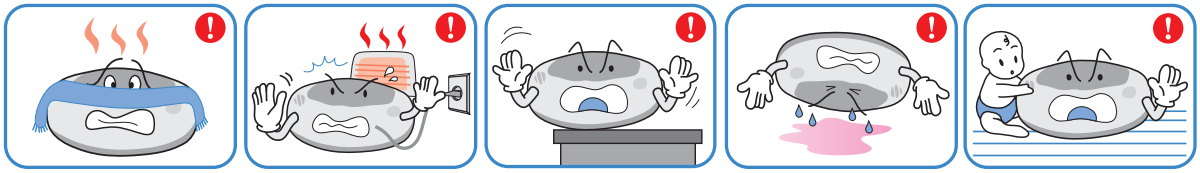
Do not install in dusty or dirty environment.
Risk of damage or fire within the incubator.

Do not install under the direct sunlight.
Risk of fire or interference with the incubation process.

Do not install in moist or humid environment.
Risk of fire or electric shock.

Do not install in excessively cold or hot conditions, cigarette smoke, etc.
Risk of interference with the incubation process.

Do not use any other non-standard parts except those provided.
Risk of damage or hatching failure.



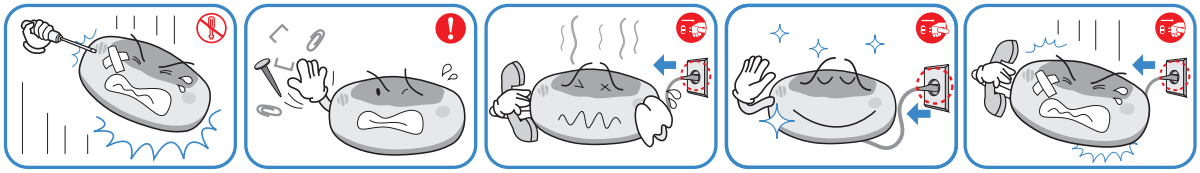
Do not cover the ventilating opening.
Inner temperature can rise, interrupting incubation.

Install away from heat sources.
Risk of damage to the incubator case and interference with the incubation process.

Ensure that the incubator is installed on a stable surface away from edges.
Risk of damage to incubator and eggs and user from accidental knocks or drops.

Do not turn the incubator upside down.
Water will pour out of the incubator, and view window can be dropped or damaged.

Children should be supervised to ensure that they do not play with the appliance.
Risk of knocking the incubator or accidental interference with the controls.



Do not disassemble or modify the incubator in any way.
Risk if electric shock or fire.

Please ensure that no small objects get into the holes on the incubator.
Risk of electric shock or fire.

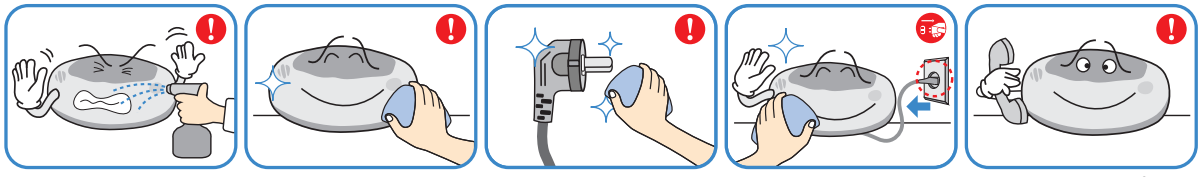
If the incubator sounds strange or emits smoke contact your service center.
Risk of electric shock or fire.

Clean the incubator thoroughly before storing.

If the incubator requires repair disconnect from the power supply and please contact to your service center.

Cleaning Cautions

CAUTION Be sure to disconnect the electric cord from the outlet before cleaning.



Do not spray cleanser directly on the incubator surface.

Clean the incubator by a soft cloth with a neutral detergent.

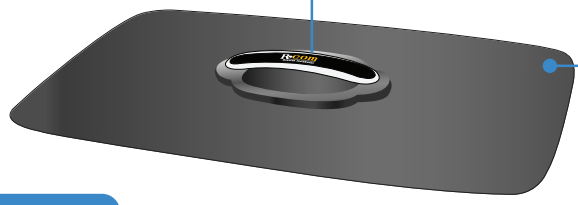
Brush away dust on the plug with a dry cloth.

Do not use chemicals like wax, benzene, alcohol, thinner, aromatic, or lubricant, etc.

For special cleaning of inner part per year, contact to the service center.
If you don't clean the inside of incubator for a long time, dust can cause some trouble or a fire.

※ This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

Identification of Parts



Handle

View Window

For a clear view of
the incubation process.
(Double Skin Viewing Window)

Product Serial No.

Power Connecting (the rear)

For connecting
power cord.

Vents for air circulation

For circulating warm air

Egg Tray

Small, Standard,
or Large egg tray
according to egg size.
Universal Tray
(Sold Seperately)

Air inlet vent

For inlet of air
from outside

Water hole

To facilitate water top-up
for the humidity control.

Main Body-1

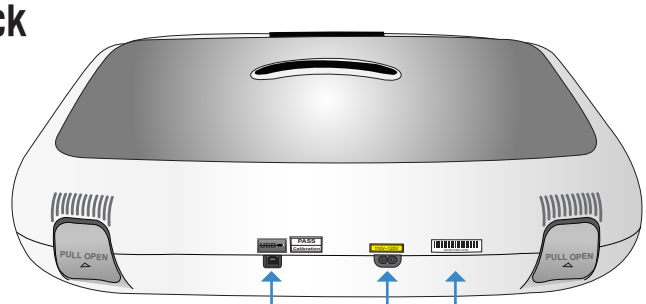
Digital Control Center

See description of
the function and operation.

Main Body-2

Locking Button

Back



USB Cable Connecting Socket

Connecting the USB cable.
You can set and store
incubation conditions
with your Computer.

〈 USB MODEL Only 〉

Power Connecting Socket

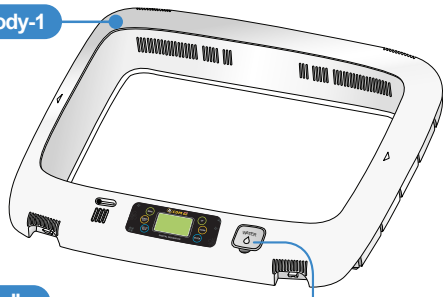
Connecting the electric cord

Product Serial No.

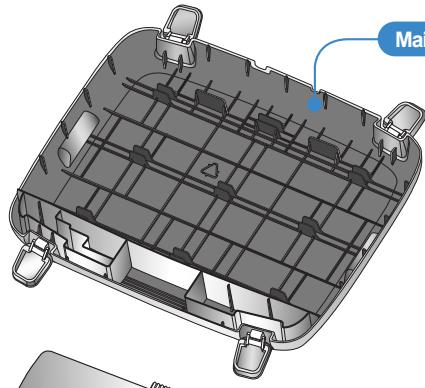
Register your serial No.
on our website for
2 years warrantee.

Basic Components

Main Body-1

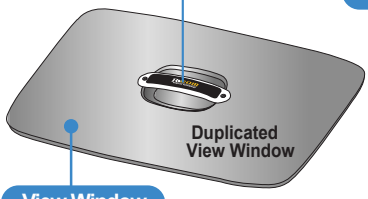


Main Body-2



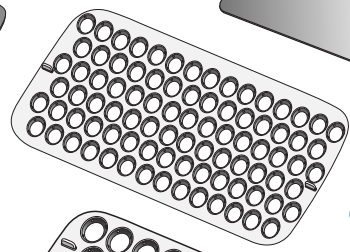
Handle

Water Cap

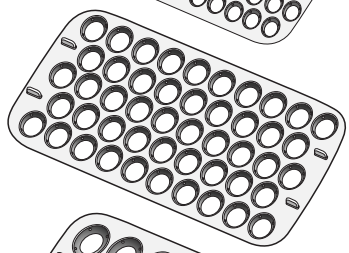


View Window

Egg-Turning Plate



Small Egg Tray



Standard Egg Tray

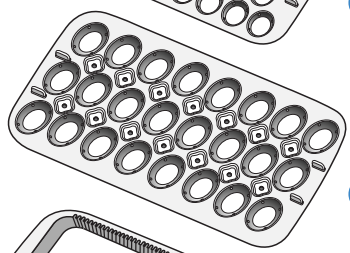
PC SOFTWARE

〈 USB MODEL 〉

Program CD Included

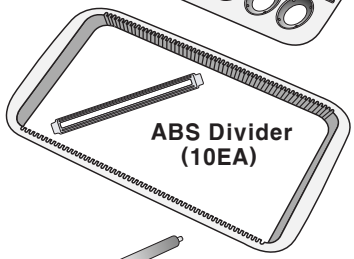
Volt for window assembly

Power Cord



Large Egg Tray

Manual

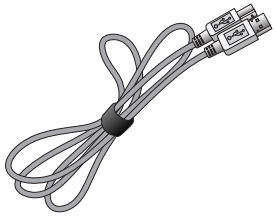


Universal Tray (Option)

<Sold Separately>

USB Cable

〈 USB MODEL 〉



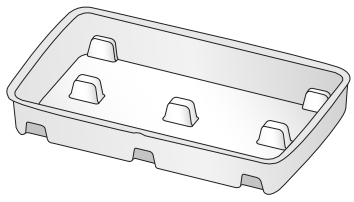
※use with universal tray

Rolling Divider

<Sold Separately>

Easy function operation

* Can be attached anywhere for easy viewing

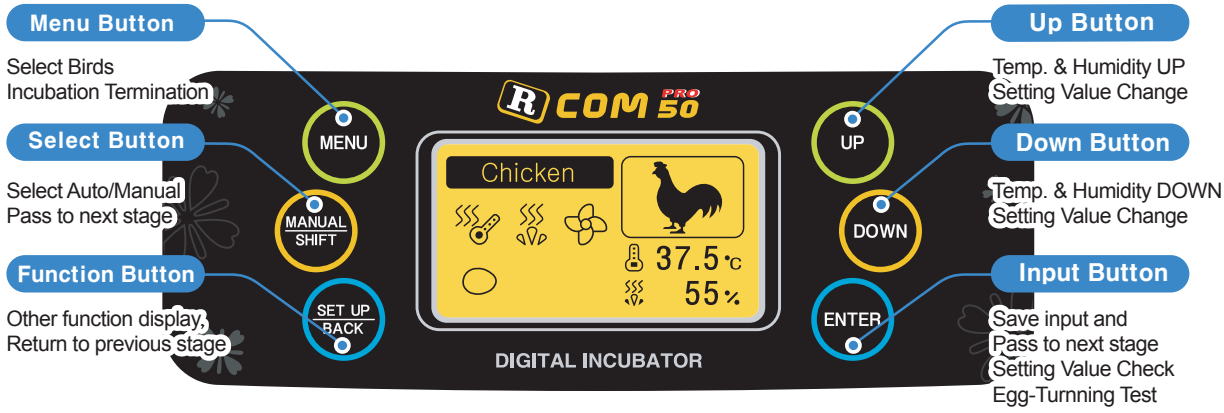


Tray for brooding use

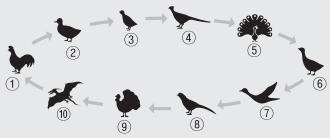
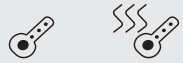
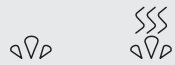
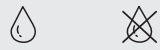
<Sold Separately>

▶ USB MODEL - You can download updated information at www.R-com.co.kr

R-COM PRO 50



Explanation of Digital Display

ICON	NAME AND FUNCTION	ICON	NAME AND FUNCTION
 Bird Icon Display	**Choose a kind** * Chicken ① * Duck ② * Quail ③ * Pheasant ④ * Peafowl ⑤ * Goose ⑥ * wildgoose ⑦ * G- Pheasant ⑧ * Turkey ⑨ * Others Birds ⑩		Egg Turning Indication Manual Egg Turning Stop Indication Automatic Egg Turning Stop Indication Incubation Termination
Chicken	Species of Birds		FAN Operation Display
	Current Temperature Display Temperature Abnormal Display		Heater Stop Display Heater Operation Display
	Current Humidity Display Humidification function OFF		Humidification Stop Display Humidification Operation Display
60 90˚	Egg Turning Interval Indication (per min.) Egg Turning Angle Indication		Water Supplement Humidity Abnormal
< USB MODEL >	PC Connecting Alarm		Power Failure Notification

SET UP(Other Functions)

T.CAL Temperature Calibration		⚠ WARNING Fatal Damage with Incorrect Calibration! ⚠ Be sure to read CAUTIONS. (Calibration available after 5 Sec.) Temp. calibration limits : -9.9℃ ~ +9.9℃
H.CAL Humidity Calibration		⚠ WARNING Fatal Damage with Incorrect Calibration! ⚠ Be sure to read CAUTIONS. (Calibration available after 5 Sec.) Humidity calibration limits : -20% ~ +20%
ALARM Abnomal High Alarm	High Temp HiErr	Alarm sounds when incubator temp. is higher than setting value because of room temp. change or heating system disorder * Setting Range : 0.0℃ ~ 5.0℃ (Default Setting : 2.0℃)
ALARM Abnomal low Alarm	Low Temp LoErr	Alarm sounds when incubator temp. is lower than setting value because of room temp. change or heating system disorder * Setting Range : 0.0℃ ~ -5.0℃ (Default Setting : -3.0℃)
Unit		Selecting Centigrade (°C) and Fahrenheit (°F) * Default Value : Centigrade (°C)
Light		LCD Backlight management setting * Always On : Always BackLight On * Always Off : Always BackLight Off * Event On : 20 Sec. ON with Key input * Default Value : Always On
Sound		ON/OFF Setting for Melody, other alarms * Default Value : ON
ALL RESET Factory setting	**ALL RESET**	It returns to factory setting when you change the initial setting at discretion.
Info		Basic information of Incubator (versoin Indication)

Easy Function Operation

▶ **REFER TO "HOW TO START INCUBATION" FOR MORE INFORMATION.**

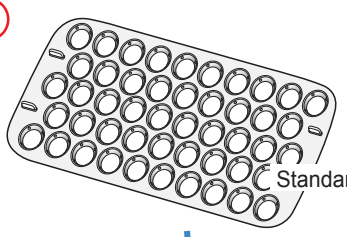
Function	How to Operate	Page
Automatic Mode Incubation	MANUAL ▶ **Select the Species of Bird** ▶ ENTER **2 Sec.**	12
Other(Manual) Mode Incubation	MENU ▶ UP / DOWN Select the Species of Bird ▶ ENTER ▶ Temp. Setting, Humid. Setting, Egg Turning Angle Setting, Egg Turning Interval Setting(Incubation day) ▶ ENTER	13 ~ 15
How to change Setting under Incubation	MANUAL — Once: Temp. Setting; 4 times: Humidity Setting; 7 times: Egg Turning Angle Setting; 9 times: Egg Turning Interval Setting ▶ UP / DOWN ▶ ENTER	17
Incubation Termination	**Screen on Incubation** MENU ▶ **System finish Are you sure?** UP / DOWN **Select YES** ▶ ENTER	16
Incubator Initialization (Factory Setting)	SET UP BACK ▶ UP / DOWN **"All Reset"** ▶ ENTER ▶ ENTER	16
℃ ↔ °F **How to change**	SET UP BACK ▶ UP / DOWN ℃ ℉ ▶ ENTER ▶ UP / DOWN ℃↔℉ ▶ ENTER	16
How to turn off Humidification Function In case of low humidity incubation	Screen on Incubation — MANUAL **4 times** ▶ DOWN UNDER 30% ▶ **"OFF"** ▶ ENTER	17
Egg Turning Test	ENTER **5 Sec.** — **Setting Value Check** — ENTER	17

How to Assemble

⑤

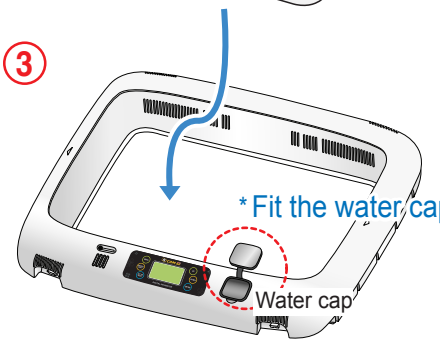
View Window

④



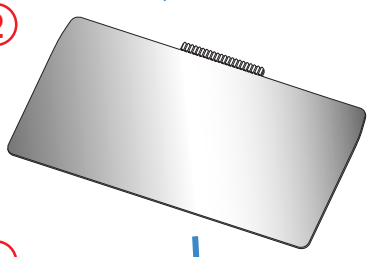
Standard Tray

③



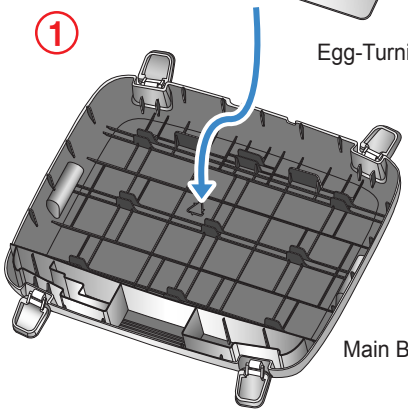
Main Body-1

②



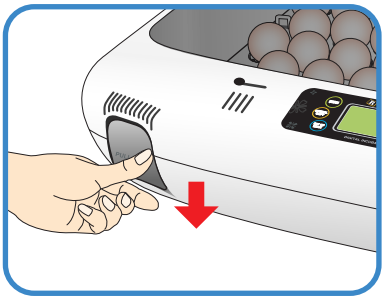
Egg-Turning Plate

①



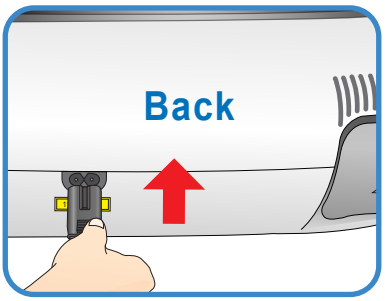
Main Body-2

⑥



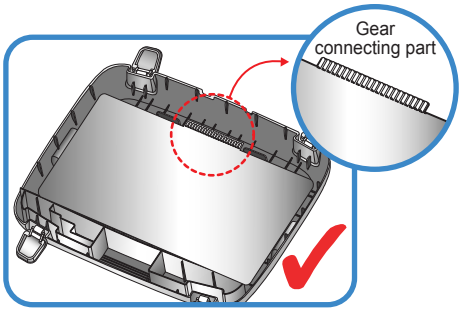
Lock the four locking buttons at the front and rear of the incubator.

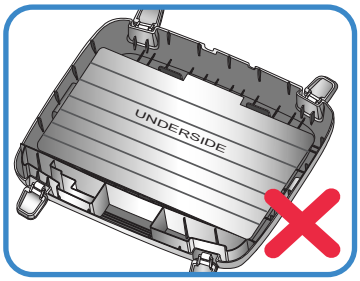
⑦



Insert the power cord in the socket at the back of the main body.

⚠ Be careful when you assemble egg turning plate.

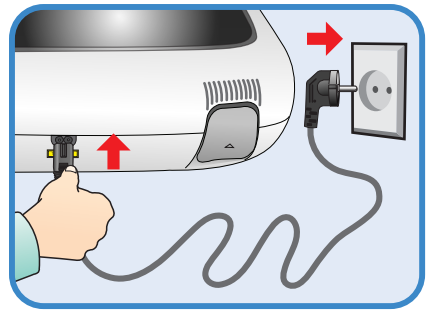




- If you do not assemble egg turning plate correctly, it can cuase incubator failure.
- Gear connecting part of egg turning plate must be on the top side.

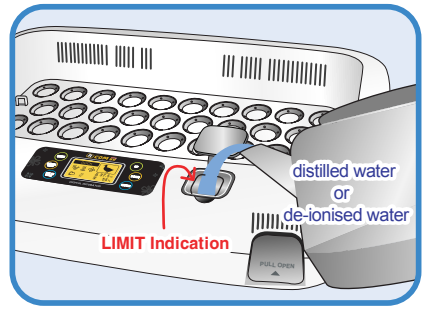
What's an Incubation Room? / Preparation for Incubation

The Incubation Room is a confined space for setting and operating an incubator.
Because the incubation room environment has a considerable effect on hatch rate, it's recommended to control the environment for setting up an incubator; there should be little noise and vibration around and temperature ranging 20℃-25℃(68-77˚F) with small variation in temperature.
Especially, if there are frequent occasions when the temperature drops suddenly at night, compared with daytime, be sure to check from time to time and pay attention so that the incubator is not directly exposed to sunlight during daytime.



1 Insert the electric cord in the connecting jack in the back of the main body and put the main plug into a socket. The LCD display will light up and show temperature.

2 Open the watercap and fill the hole with clean water and refill water after about 5 min. again; up to the limit line on its inside mark. (If you refill water during the incubation period, humidity goes down temporarily.)

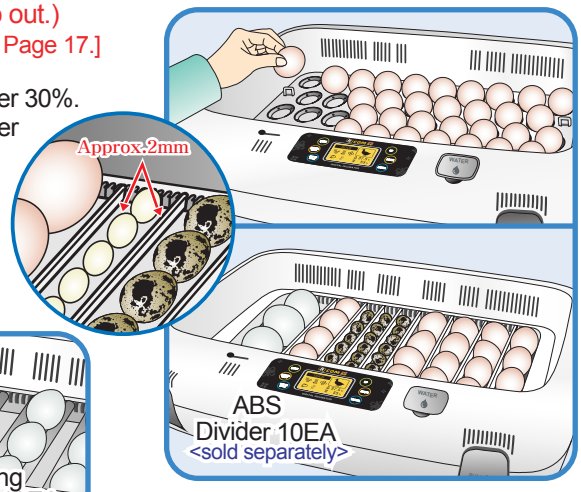


⚠ After filling up with water, never shake or turn over the main body of the incubator, which would cause water to spill inside the body and could cause a breakdown.

Tip During incubation period, check the water level about every three days and refill water, if necessary. (After you refill water, check again after 5min. and refill again.)

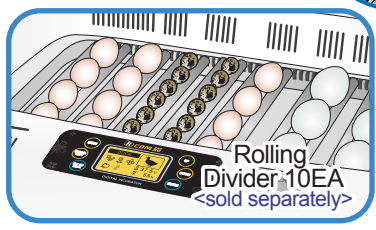
⚠ In case you use the incubator without adding humidification water or intend to incubate eggs at low humidity under 20%, you must stop its humidification function. (When using this function, the alarm for sensing water drop will go out.)
[See the description of humidification function ON/OFF on Page 17.]

※ How to turn off Humidification Function : Set humidity under 30%.
※ It is recommended to use distilled water or de-ionised water to prevent alien matter being introduced around the humidifying heater.

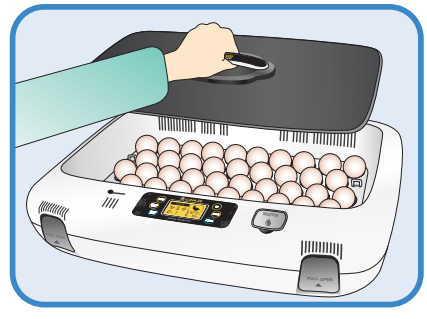


⚠ Some gap (about 2mm) around the eggs is needed for easy egg turning as shown on the right. ▶

※ When you use the 'universal rolling divider' which is sold separately, be careful to adjust the distance of rolling divider so that eggs do not roll out of position. Refer to the picture rignt side.



3 Place the eggs to incubate in the egg groove and then close the view window.



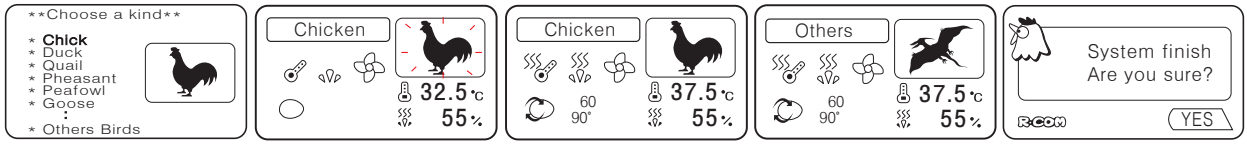
⚠ Be careful to close the view window completely; if not, the temperature and humidity will fail to go up.

Tip The egg to incubate must be a fertilized egg. (Refer to the guidebook.)

Incubation Modes

* Rcom Pro20 incubator has two modes as automatic and manual mode, and Rcom Pro20USB incubator has three modes as automatic, manual, and PC connecting mode.

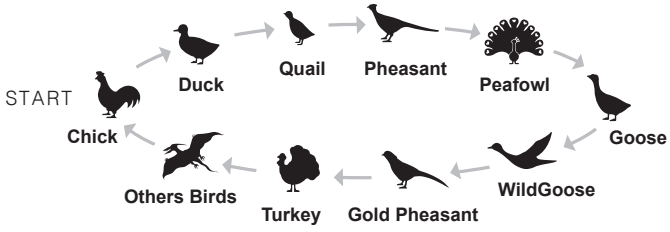
- R COM 50 PRO / R COM 50 PRO USB
  - Auto incubation
    - MANUAL button (Selection of birds)
    - ENTER button (Auto incubation starts after two seconds)
  - OTHER (MANUAL) incubation (Other birds)
    - MENU button
    - UP/DOWN button (Selection of birds)
    - ENTER button
      - Temperature setting
        - ① Setting of temperature of early and middle stages of incubation
        - ② Setting of temperature of final stage of incubation.
        - ③ Setting of date of temperature change in the final stage of incubation.
      - Humidity setting
        - ④ Setting of humidity of early and middle stages of incubation.
        - ⑤ Setting of humidity of final stage of incubation
        - ⑥ Setting of date of humidity change in the final stage of incubation.
      - Egg turning angle setting
        - ⑦ Setting of egg turning angle of early and middle stages of incubation.
        - ⑧ Setting of date of egg turning angle change in the final stage of incubation.
      - Egg turning interval setting
        - ⑨ Setting of egg turning interval of early and middle stages of incubation.
        - ⑩ Setting of incubation date.
      - Incubation starts.
  - Incubation termination (under incubation)
    - MENU button
    - UP/DOWN button ("yes" selection)
    - ENTER button (incubation termination)

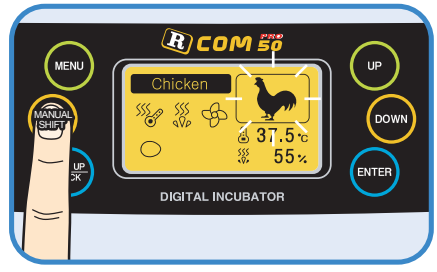


MENU screen | basic screen before starting incubation | Screen showing incubation is in progress | Screen showing incubation of other birds is in progress | Screen showing completion of incubation

Incubation start with Automatic Mode

The optimum incubation environment of the birds on the menu screen is memorized in the micro chip. User can incubate easily using this function.



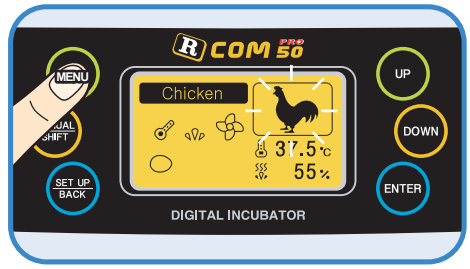


- ▶ Press MANUAL button to select species of birds in basic screen.
- ▶ Select species of birds and press ENTER button for about 2sec. then it starts incubation with automatic mode.

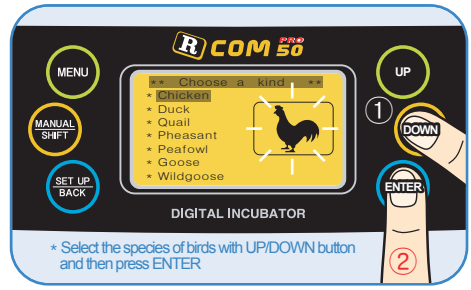
Tip In auto incubation, user only needs to select type of birds as incubation environments such as optimum temperature, humidity, egg turning, etc. are automatically controlled. User can change incubation environments if needed.

Incubation start with Manual Mode

This mode helps users to set temp. humidity, and egg turning etc. according to their needs. This mode is ideal for those persons who are experienced in incubation.



▶ Press MENU button on basic screen.



▶ Select the species of birds with UP/DOWN button and press ENTER button then it goes to incubation conditions setting mode.

▶ Set required temp. humidity, and egg turning angle & interval with UP/DOWN button, and press ENTER button to pass to next step.

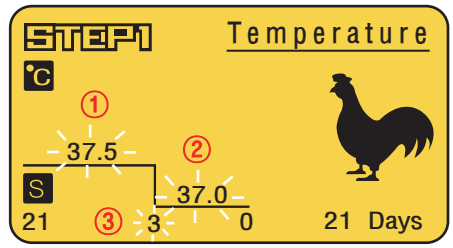
STEP1 Temperature setting

① Setting of temperature of early and middle stages of incubation.

② Setting of temperature of final stage of incubation.

③ Setting of date of temperature change in the final stage of incubation.

▶ Optimum incubation temperature of general birds at early and middle stages ① is 37.5℃, and the temperature of final stage ② is better to set at 37℃ three days before the expected date of hatching (D-Day) ③. User can optionally change the temperature of early, middle, and final stages of incubation. (Default settings: ① 37.5℃, ② 37.0℃, ③ 3days)



[Temperature Setting]

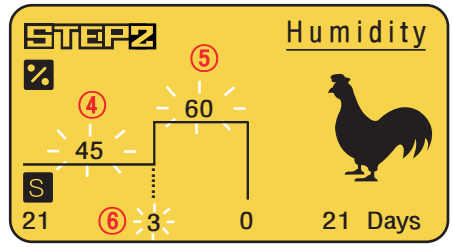
STEP2 Humidity setting

④ Setting of humidity of early and middle stages of incubation.

⑤ Setting of humidity of final stage of incubation

⑥ Setting of date of humidity change in the final stage of incubation.

▶ The optimum humidity depends on type of birds. However the humidity of final stage ⑤ (3 days before incubation)is generally higher than that of early and middle stages ④ of incubation. (Default settings: ④ 45%, ⑤ 60%, ⑥ 3days)



[Humidity Setting]

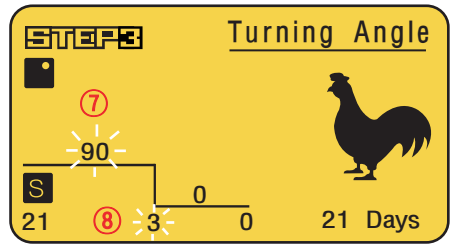
Tip It is recommended to raise the humidity setting to over 60% from 1 or 2days before hatching. (In areas of high ambient humidity, the humidity may not need to be raised until the last half day - after the chick is into the air space at the end of the egg.)

STEP3 Egg-turning angle setting

⑦ Setting of egg turning angle of early and middle stages of incubation.

⑧ Setting of date of egg turning angle change in the final stage of incubation.

▶ The egg turning angle showing on LCD screen may be different from the setting angle depending on egg tray (based on standard egg tray) and size of eggs. In general, the egg turning angle of early and middle stages is 90° for chicken, golden pheasant, pheasant. It is better to set higher angle (110 ~180°) for bigger eggs and wild birds. It is a general practice not to turn eggs (turn angle is 0°) at final stage of incubation (3 days before expected hatching date).



[Egg Turning Angle Setting]

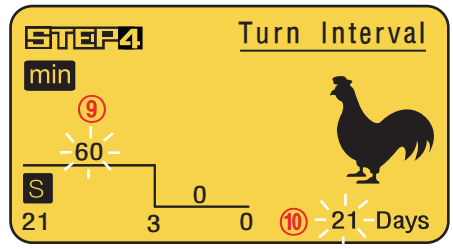
Tip When "rnd" (Random) is set, the egg turning angle is between 75~180°at random.
(Egg turning angle setting range : 0°, 15°, 30°, 45° · · · · , 150°, 165°, 180°, rnd)

STEP4 Egg turning interval setting

⑨ Setting of egg turning interval of early and middle stages of incubation.

⑩ Setting of incubation date.

▶ It is a function to set the interval (time) of egg-turning ⑨. It turns the eggs with the setting angle of early and middle stages ⑦ every 60min. User can optionally set the egg-turning interval ⑨ of eggs. (Initial Setting: ⑨ 60min.)



[Egg Turning Interval, Incubation Date Setting]

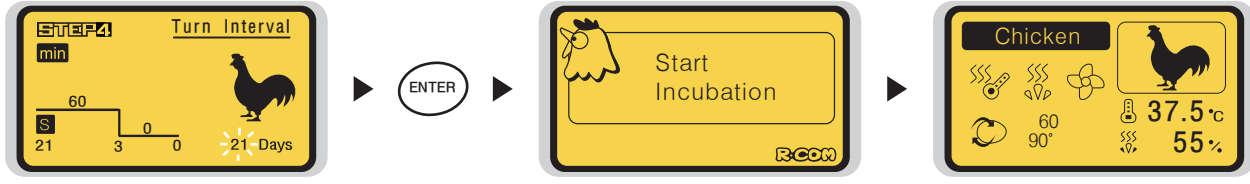
Tip "rnd"(Random) setting is for operating at random within the limits from 10min. to 360min.
(Egg turning interval setting range: rnd, 10, 20, 30, 40 · · · 340, 350, 360min.)

▶ Setting of incubation date: The incubation date of birds on menu screen is a general incubation date. User can input the correct incubation date. (Initial settings: depending on type of birds)

※ Incubation date setting cannot be changed during incubation.

[Setting Finish and Incubation Start]

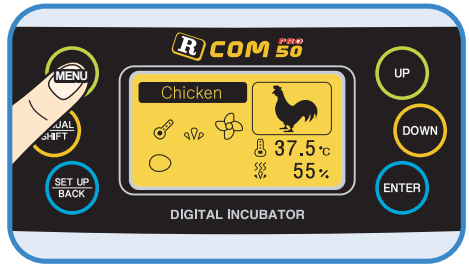
▶ After setting incubation date, press ENTER button to start incubation with melody.



[Incubation Start Notification] **[During Incubation]**

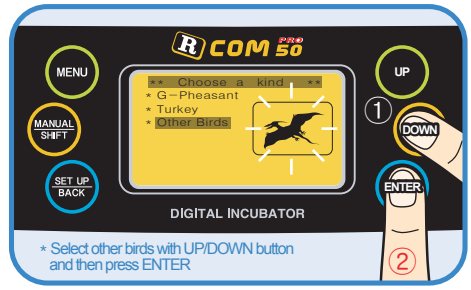
Incubation Start for other birds

This function is used when user wishes to incubate other birds which are not memorized in the incubator menu setting.
User can change incubation conditions according to needs.

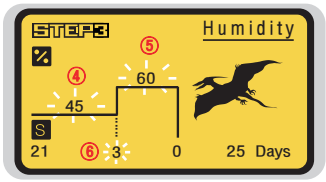


▶ Press MENU button in basic screen.

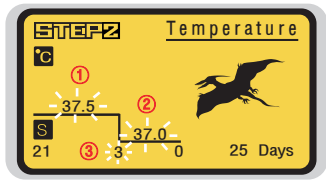
▶ Select Other Birds by UP/DOWM button and then press ENTER to go to setting.



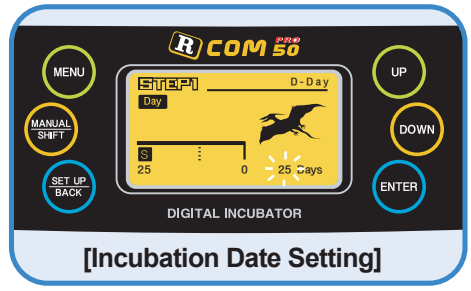
▶ Set incubation date, temperature, humidity, egg turning angel and egg turning interval with UP/DOWM button, and press ENTER button to save setting value.
[Refer to the page 13, 14]



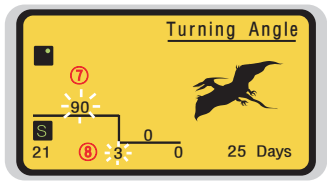
[Humidity Setting]



[Temperature Setting]



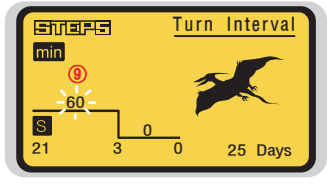
[Incubation Date Setting]



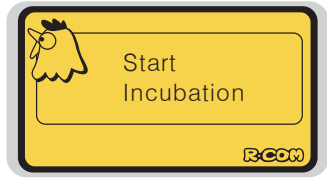
[Egg Turning Angle Setting]

▶ How to Set Consecutive Incubation Function : On Incubation date setting, raise incubation date up to D-50 and then press UP button one more, then "?" will be show and it starts Consecutive incubation.

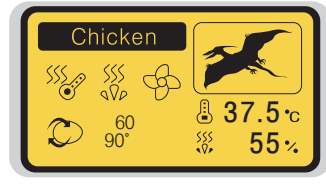
Tip What is Consecutive Incubation Setting?
This function is used if you want to continue incubation without termination with same setting.



[Egg Turning Interval, Incubation Date Setting]

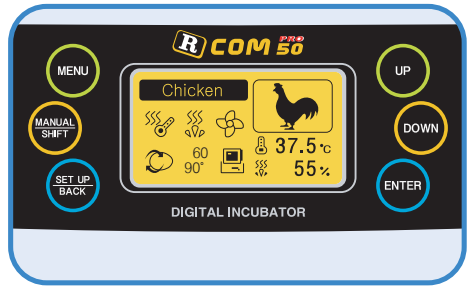


[Incubation Start Notification]



[During Incubation]

Incubation start with PC connecting mode

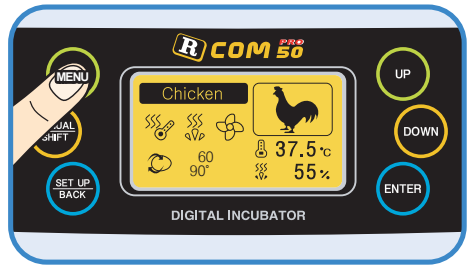


<R-COM PRO 50 USB MODEL ONLY>

With this function, you can share incubation process, optimum incubation setting by building a database.

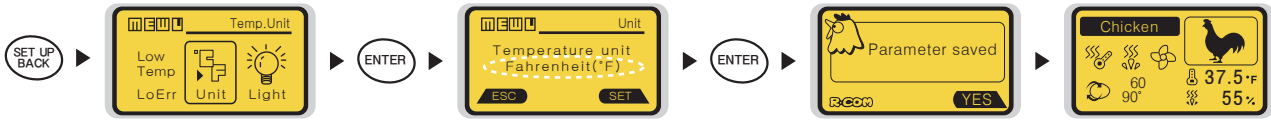
- Refer to the PC Software Manual for starting incubation in PC connecting mode.

Incubation Termination



- During incubation, press MENU button then you can see a message as "System finish, Are you sure?"
- Select YES with UP/DOWN button and press ENTER.

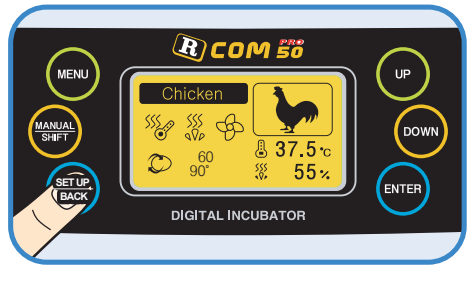
Change Cels. & Fahr.



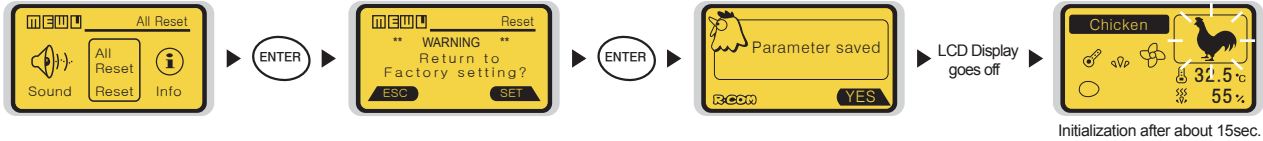
Select with UP/DOWN button

Select ˚C or ˚F with UP/DOWN button

Incubator Initialization (Returning to Factory Setting)



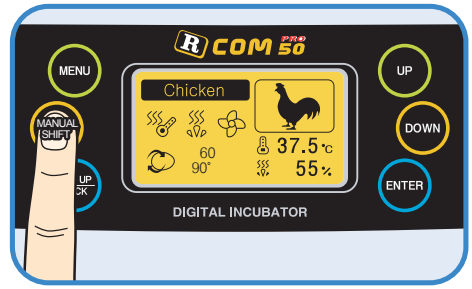
- When users have changed the incubator settings, but want to return to factory setting.
- Press SET UP button and select All Reset with UP/DOWN button. Then, press ENTER.
  If you press ENTER button once again, LCD display goes off with message & alarm. Incubator returns to factory setting after about 15 sec.



Initialization after about 15sec.

Incubation Condition Reset during Incubation

▶ This is used when you want to change incubation setting mode again during incubation.
Press MANUAL button during incubation, then Temp. display will blink.
If you want to change Temp. reset with UP/DOWN button and then press ENTER to save.
Using this method, you can also reset humidity, egg turning angle, and egg turning interval. If you do not want to change setting, just press MANUAL button then it passed to next stage.
Also, it returns to incubation screen if you do not press any key for about 10sec.



▶ You can go directly to the needed setting mode by pressing MANUAL button several times according to your needs.
It can be used when you want to check the current incubation condition during incubation.

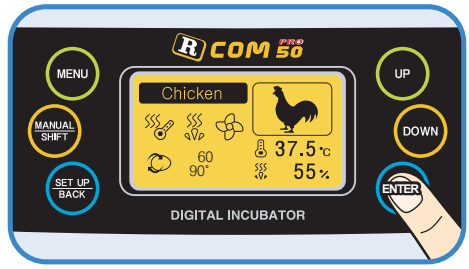
▶ If you press ENTER button, LCD display indicates setting Temp. & Humidity.

[Setting Save Message]

Egg Turning Test

▶ Press ENTER button for about 5sec. during incubation period to check egg turning.

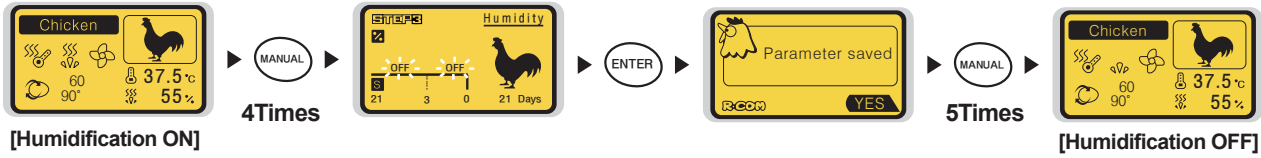
▶ If egg turning does not work, check whether you assembled the egg turning plate properly.
[Refer to the page 10.]



Humidification Function ON/ OFF Setting

▶ You should turn OFF humidification function when you operate incubator without water, or when you want to incubate with low humidity below 30%.

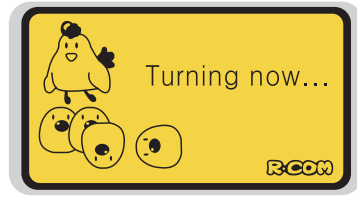
▶ Press MANUAL button 4 times and then press DOWN button continuously until OFF indication is showing.
Then, press ENTER button to turn humidification off.
If you want to humidification turn ON, set humidity over 30%



[Humidification ON] **[Humidification OFF]**

Egg Turning Check Function

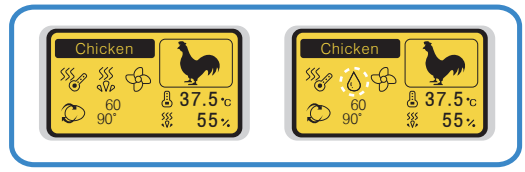
▶ When starting egg turning, animation showed on display with melody.



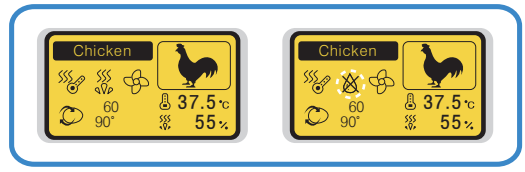
Water Shortage Detecting Function

▶ When water is short, humidification icon is changed → and water supplement alarm sounds after 5 min. This alarm continues every 30 sec.

⚠ It takes about 1min. to return to normal display after you refill water.

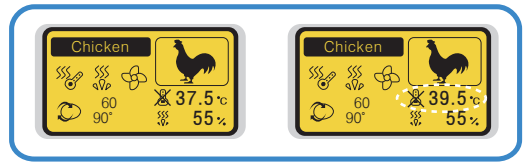


▶ When there is any problem on water detecting sensor, humidification icon is changed like this → , and alarm sounds with message.



Abnormal High or Low Temperature Alarm Function

▶ When incubator temperature is different from setting value, icon is changed → , and display indicates current temp. and temp. difference alternatively.



<Example>
When temp. difference is 2℃, it indicates 39.5℃ and +2.0 alternatively (setting 37.5℃)
When temp. difference is -3℃, it indicates 34.5℃ and -3.0 alternatively (setting 37.5℃)

※ Alarm call automatically turned off after 1min. but you should press ENTER button to switch off alarm indication.

* How to Set Abnormal High Temp. Setting (When incubator temp. is higher than setting temp.)
[Setting Range: 0.0℃ ~ 5.0℃, Default Setting : 2.0℃]

Select with UP/DOWN button

Set with UP/DOWN button

When MENU screen is shown, press SET UP/BACK button and display return to basic screen.

* How to Set Abnormal Low Temp. Setting (When incubator temp. is lower than setting temp.)
[Setting Range: 0.0℃ ~ - 5.0℃, Default Setting : - 3.0℃]

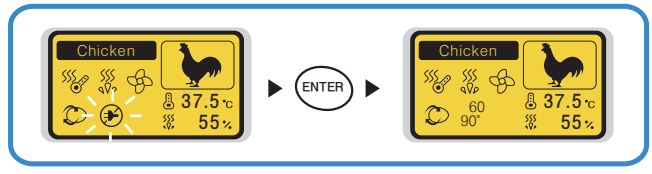
Select with UP/DOWN button

Set with UP/DOWN button

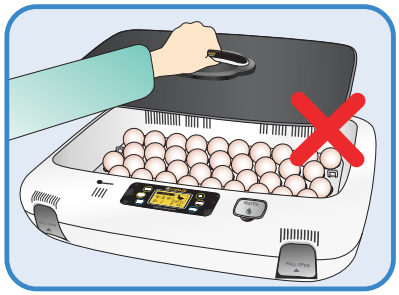
When MENU screen is shown, press SET UP/BACK button and display return to basic screen.

Power Failure Alarm Function

▶ When you first switch on the power, or in case of power failure during incubation, display shows this icon and incubator and incubator alarm sounds for about 10sec. Press ENTER to remove.

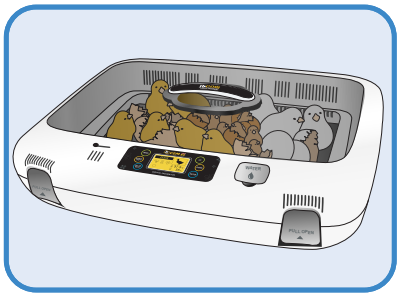


Humidity & Air Maintenance During Incubation



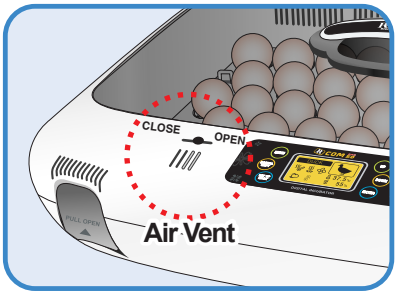
▶ When hatching, humidity should be relatively high to prevent the thin membrane from drying out or hardening before hatching.

▶ When hatching, it's recommended not to open the lid often. This is because if you open the lid often humidity will be rapidly decreased and it will take a long time to regain the proper humidity.



※ If incubatior temperature is higher than 37℃ and room temperature is low, it may be difficult to maintain humidity of over 70%. There may be some difference of humidity about ±5% according to the external environment , but no problem with hatching.

▶ It's very important to maintain humidity higher 1~2 days before hatching than the early and middle incubation periods.
Humidity requirements during incubation are 45~55% for waterfowl, 40~45% for poultry and 35~45% for parrot, in general. One day before hatching, all kinds of birds need about 65% humidity and sometimes need higher than that. However, in areas of high ambient humidity, lower levels of humidity may be needed during incubation



※ Air Controlling Lever : Outer fresh air can be flowed into incubator inside without affecting insulation.
When eggs start hatching, open air controlling lever either fully or half-open.

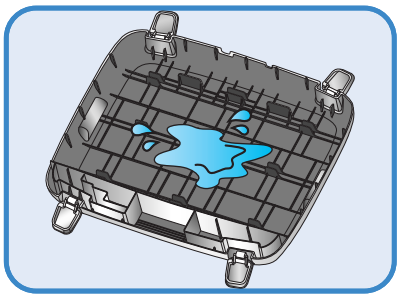
Maintenance after Hatching

▶ Because newly-born chicks just after hatching have little protection against cold, a brooding room should certainly be prepared in advance for them. In case there is no separate brooder prepared, you may let them stay in the incubator for one day or more after hatching. If you move them to an brooder or brooding box, the inner temperature should be kept at 35℃~37℃ .
For the production method of a simple brooder, please refer to our website www.r-com.co.kr.

▶ As there is some difference in chick feed for each kind of bird, so it's desirable to obtain useful information about the chicks before hatching.

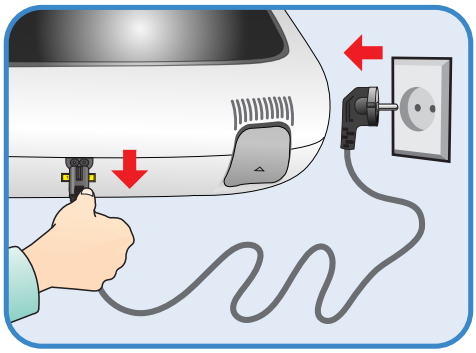
⚠ If feather of chicks gets wet, chicks' body temperature falls down, and, if then, you must immediately dry by hair dryer.

※ Dew Condensation



▶ This is a naturally occurring phenomenon when there is a significant difference in temperature between inside and outside of the incubator during incubation period. If this occurs, water may form in inside bottom of the main body of the incubator(bottom part).

▶ Pull out the electric cord from the connecting jack and also take out the plug from the outlet.

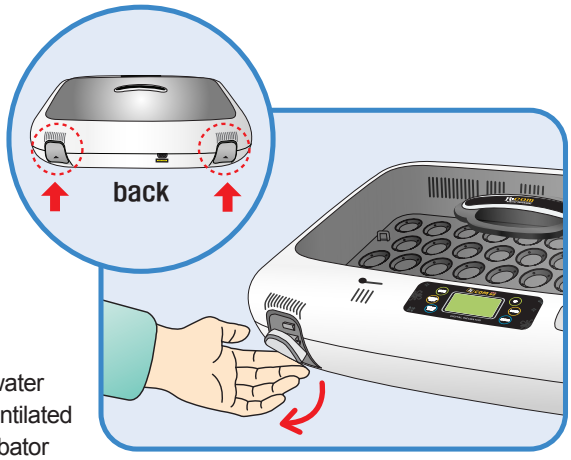


⚠ Don't turn off the power soon after using the incubator, as this may cause a break down due to moisture left inside the main controller. At this time, it's better to firstly remove the water inside of the incubator and dry by operating it for 1 hour and then turn it off or open the view window and dry it naturally for 2~3 hours and, then, re-operate it, which may lengthen the life time of incubator.
(Set humidification function OFF. / Refer to the page 17.)

How to disassemble and clean the incubator

1

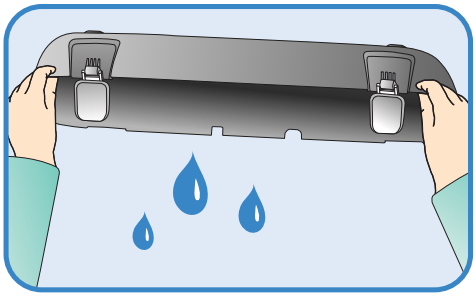
Unlock and remove the locking buttons for four parts at the front and back of incubator by pulling them forward.



2

The bottom part of incubator should be thoroughly cleaned with water and dried. The upper part should be naturally dried in the well-ventilated place for about one day to remove moisture left inside of the incubator after hatching thoroughly.

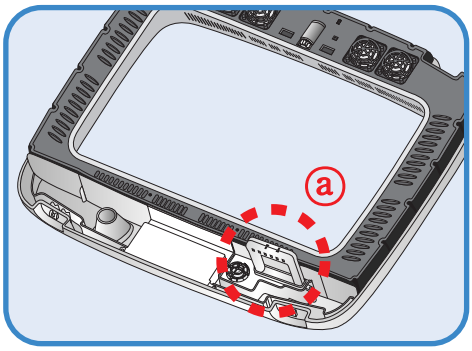
⚠ Don't clean the product with organic solvents such as benzene, thinner, etc. which may cause deformation or decoloration of the plastic parts.



3

▶ When using humidification function, a lot of alien matter sticks to the humidification heating element ⓐ. This may not cause failure, but when terminating incubation please clean the humidifying heater lightly with a soft brush.

▶ If you place the main body(upper part) on the floor, please don't let the humidification heating part touch with the floor.

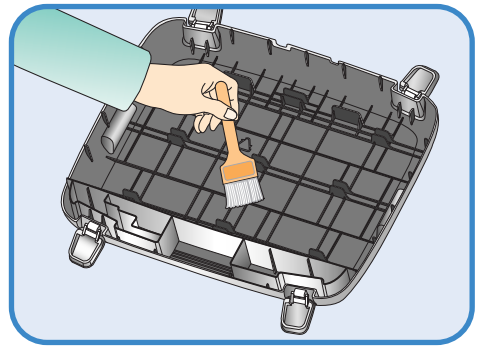


⚠ If you inflict impact on the humidification heating part or scrape it with a sharp instrument, the humidifying heater will be damaged.

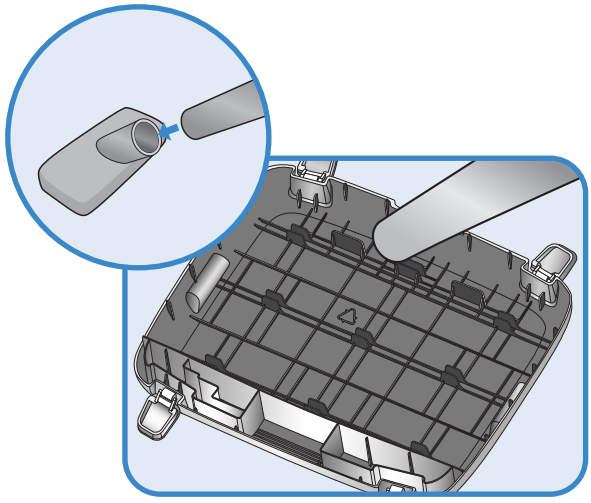
⚠ You are recommended to use distilled water or de-ionised water to prevent alien matter being caught in around the humidification heating part ⓐ.

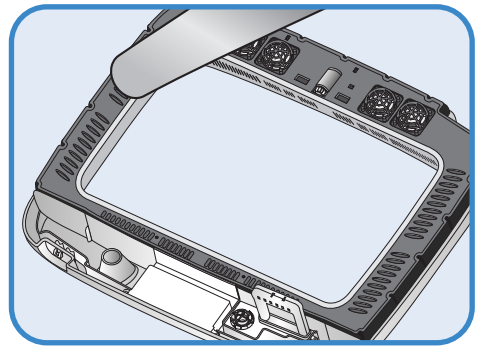
4

Start the vacuum cleaner to remove the dust as shown on the right and thoroughly shake out the minute dust with a fine brush.



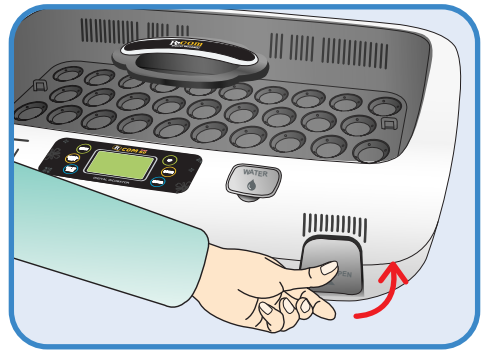
Tip If the incubator goes through incubations several times, feather, dust, shell, etc. accumulate inside the main body, which may cause a break down, so be sure to clean the product before storage.





5

If you finish cleaning the incubator, reassemble it in the reverse order of disassembly. Wipe out outside the main body with a wet cloth and dry it in a cool and well-ventilated place before storage.



Tip [Refer to How to assemble on Page 10.]

⚠ Don't clean the product with organic solvents such as benzene, thinner, etc. which may cause deformation or decoloration.

Servicing

All our R-Com digital incubators of Autoelex Co., Ltd. are made by precision systems under strict quality control. But occasionally some defective products are found on the way of their distribution. If any problem occurs, then please contact Autoelex service center or distributors in your country. We will do our best to solve the problems, if any, for you.
This product is designed in modular mode, so for its repair, if any, a qualified person can replace the part concerned with ease.

Frequently Asked Questions (FAQ)

Troubles	Expected Causes (Possibility)	Countermeasures
In case hatching rate is low	▶When the egg is an unfertilized egg. ▶Getting infected by germs ▶Wrong incubation setting ▶Health condition of mother bird ▶Improper egg turning	▶ Check possibility of egg surviving ▶ Disinfect the incubator ▶ Check all settings of incubator. Especially, check them focusing on the temperature. ▶ Review care of health of mother bird. ▶ Check if egg turning is normal.
When a chick hatches out earlier than expected or a deformed chick hatches out	▶Setting temperature too high ▶Egg turning was not operating normally	▶ Lower temp. setting of the incubator about 0.5℃(1℉) ex) 37.5℃ → 37.0℃ ▶ Check if egg turning function is OFF
When a chick hatches out later than expected	▶Setting temperature too low	▶ Raise temp. setting of the incubator about 0.5℃(1℉) ▶ ex)37.0℃ → 37.5℃
When hatching dates are so different from each egg (When all chicks don't hatch out at the same time but over a long period)	▶ Eggs stored for different lengths of time ▶ Diffferent incubation temperatures	▶ Set limits to egg storage time properly ▶ Check Temperature difference in the incubator. (sunlight, temp of incubation room, etc.)
When intending to hatching various eggs at the same time	▶ Incubation days are different, so hatching rate falls down.	▶ Mark hatching date on eggs and move them to other incubator (brooder) just on the marked date. ▶ In case of putting in many eggs at the same time, it's convenient to prepare a spare incubator available as a brooder

Troubleshooting

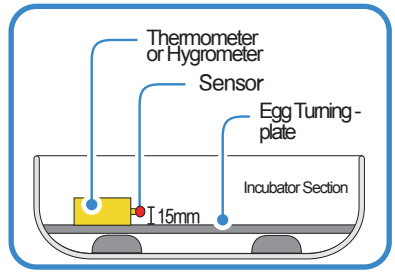
CIRCUMSTANCE	ITEMS TO BE CONFIRMED	SOLUTIONS
No signs of power to the incubator.	▶ Check electric cord is properly connected. ▶ Check if there is a power outage. ▶ Check whether the plug is damaged.	▶ Connect the cord again. ▶ Check the main socket with any other electric appliances. ▶ Try to insert to another outlet.
Temperature will not go high enough.	▶ Check your setting temperature. ▶ Check the air circulation FAN is working. ▶ Initialize the incubator. [Refer to the page 16]	▶ Set the temperature as required. ▶ Take the power plug out of the outlet, and disassemble the main body for cleaning around the air circulation fan with brush.
Alarm sounds with indication (abnormal high temp.)	▶ Check if room temperature is too high ▶ Check if incubator is exposed to the direct rays of sun	▶ Adjust room temperature between 20℃ and 25℃. ▶ Install incubator without the direct rays of sun ▶ Return incubator to factory setting [Refer to page 16]
Alarm sounds with indication (abnormal low temp.)	▶ Check if room temperature is too low ▶ Check if incubator heater(temperature controlling-system) is normally working	▶ Adjust room temperature between 20℃ and 25℃. ▶ Place thermometer inside of incubator and check if setting temperature is correct ▶ Return incubator to factory setting [Refer to page 16]
Humidity will not go high enough.	▶ Check your setting humidity. ▶ Close the view window again after checking. ▶ Initialize the incubator. [Refer to the page 16]	▶ Supply water. ▶ Set the humidity again as required.
The machine makes some noise. - It is normal that the machine emits some sounds because it uses air circulation fan for working.	▶ Check if there is any hatching debris such as feather or eggs-shell in the incubator FAN.	▶ Take out the plug out of the outlet and disassemble the main body and clean around the air circulation fan with brush.
Egg-Turning fails to work.	▶ Check that the Egg-turning stoppage is not activated. (Egg-turning lamp lighting) ▶ Check that there are no foreign items on the egg turning tray. ▶ Check if egg turning plate is assembled correctly. [Refer to the page 10]	▶ If you need to turn the eggs, you can manually re-start egg-turning. ▶ Unplug the power supply and disassemble the main body for cleaning the egg turning tray and gear. ▶ Assemble egg turning plate as the picture on page 10.
Dew foams in the incubator.	▶ Check the incubator is not placed too cold circumstances. ▶ When you turn OFF incubator and then turn on.	▶ Move the incubator to where the ambient air temperature is over 20℃. ▶ Dew condensation is normal. ▶ Dry the incubator completely under well ventilated place.
Water leaks from the machine.	▶ Check that you have not overfilled the incubator. ▶ Check that the incubator placed on inclined surface. ▶ Check if it is Dew condensation	▶ Do not fill water over LIMIT indication. ▶ Place incubator under a level surface.

⚠ Hatching result could be affected with various factors, and manufacturer do not have any responsibility for loss of eggs or birds.

⚠ As this incubator was made with the optimum conditions set at the factory, you don't need to calibrate the temperature or humidity before use except for sensitive birds.

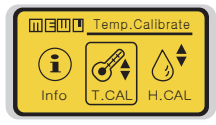
Tip Operate incubator for an hour before calibration for temperature stabilization. And then, observe the temperature or humidity at several position above 15mm of the egg tray mat with your thermometer, and calibrate with average value.

⚠ Low priced thermometers or hygrometers which you can easily purchase from the market have large deflection of measurement.
This could cause hatching failure, and it is recommended to use highly precise thermometer or hygrometer.



Temperature Calibration

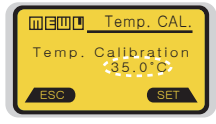
SET UP BACK



Select with UP/DOWN button

ENTER HOLD 5Sec.

Warning message during pressing ENTER button



Set with UP/DOWN button

Tip If you want to raise incubator temperature 0.5 ˚C higher, you should calibrate 0.5˚C lower at temp. calibration mode.

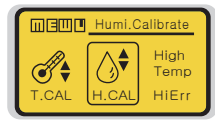
* Calibration range : - 9.9℃ ~ + 9.9℃

ENTER

When MENU screen is shown, press SET UP/BACK button and display return to basic screen.

Humidity Calibration

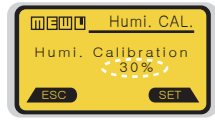
SET UP BACK



Select with UP/DOWN button

ENTER HOLD 5Sec.

Warning message during pressing ENTER button



Set with UP/DOWN button

Tip If you want to raise incubator humidity 5% higher, you should calibrate 5% lower at humidity calibration mode.

* Calibration range : -20% ~ +20%

ENTER

When MENU screen is shown, press SET UP/BACK button and display return to basic screen.

〈After Calibration〉 If you can not rely on your thermometer or hygrometer, you can initialize the incubator to factory setting. (Refer to the page 16)

Specification

1-1 Name : R-COM PRO 50 / R-COM PRO 50 USB
1-2 Model : PX 50 D / PX 50 D USB
1-3 Supporting Soft : R-COM PRO 50 USB INCUBATION SYSTEM (WINDOWS)

[Basic Specification]

Power	AC 100V~120V / 220V~240V, 50/60Hz	
Working Temp.	20°C ~ 42.0°C	
Working Humid.	30 % ~ 70 %	
Power Consumption	Max.120W (Average 65W)	
Capacity	24 eggs ~ 116 eggs	
Weight	6.5 Kg (N.W.)	10Kg (G.W.)
Size	(W)633 * (L)523 * (H)171 (mm)	
Fuse Standard	250V 2.0A (Ø5×20mm)	

[Function Information]

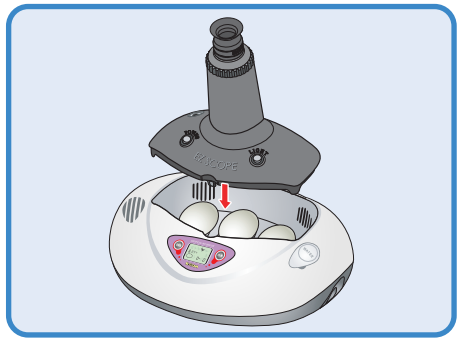
Temp. Limits	**Automatic**	automatic setting for each birds (manual control available)
	Manual	20.0°C ~ 42.0°C
	PROG (PC)	normal temperature ~ 45.0°C
Humid. Limits	**Automatic**	Automatic setting for each birds (manual control available)
	Manual	30%~70% (It can be changed according to the conditions)
	PROG (PC)	30%~70% (It can be changed according to the conditions)
Egg-Turning Interval		15°~ Different from the egg tray
Capacity		Small - 116 eggs (Quail egg size) - Small egg tray Standard - 48 eggs (Chick egg size) - Standard egg tray Large - 24 eggs (Goose egg size) - Large egg tray For all size egg - Different from the species of egg Universal tray (option)
PC Connecting **- USB MODEL -**	**USB 2.0**	- Real - time hatching condition transmission and setting control - Incubator Upgrade

※ Register your product Serial No. on our website for free 2 years gurantee.
※ Refer to website for how to register. (Free 1 years gurantee in case not registerd.)

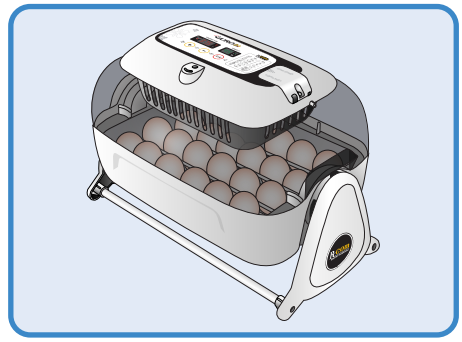
▶If you are new member of Rcom website,
1. Visit www.r-com.co.kr
2. Click English version
3. Click "REGISTER" at the left side of page.
4. Full in your information according to description.
5. Register completed.

▶If you already registered your information on Rcom website
1. Log on www.r-com.co.kr
2. Click "Member information change" at the left side of page.
3. Check "YES" to the question "Did you purchase Rcom products?"
4. Fill in your information according to description.

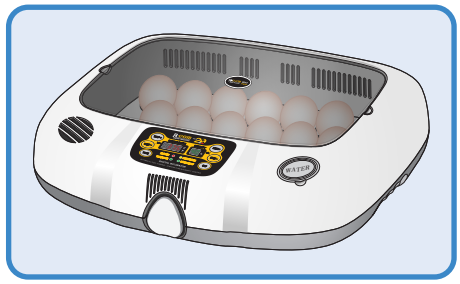
R-com Incubator Series



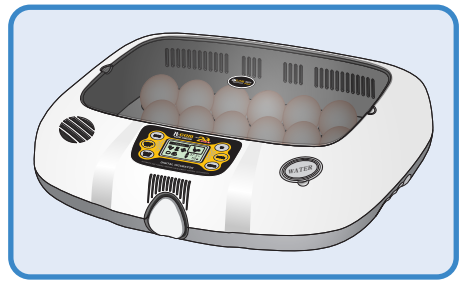
Mini 3eggs (DX-SCOPE)



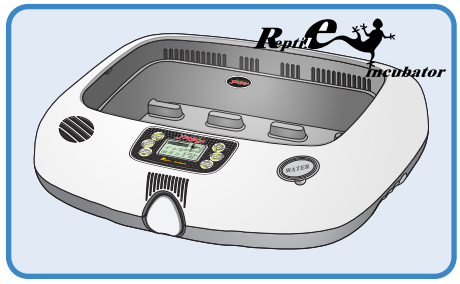
RCOM KING SURO (EX-20)



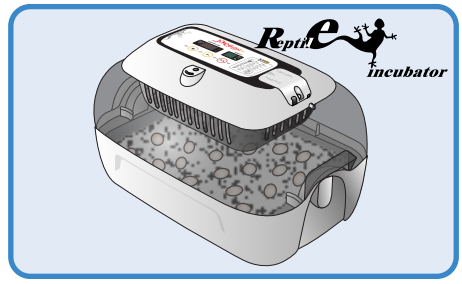
RCOM 20 (PX-20)



RCOM PRO 20 (PX-20D)



JURAGON PRO (PX-20RD)



JURAGON RX (RX-20)

BROODER(BX-501SN)

RCOM MARU (ST200~500eggs)

RCOM MARU (CT200~500eggs)

R-COM is designed for user's easy and convenient use.
It can be changed without notice for improvement in performance,
design,treatment, and software, etc.

R-com
Digital Incubator

www.R-com.co.kr

SELLER

MANUFACTURER

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  : 82-55-337-2561-3, 2567 (Office)
- FAX : 82-55-337-2568
- E-MAIL : auto@autoelex.com (Sales team)

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